

**PETITION FEE**
Under 37 CFR 1.17(f), (g) & (h)
TRANSMITTAL

(Fees are subject to annual revision)

Send completed form to: Commissioner for Patents
P.O. Box 1450, Alexandria, VA 22313-1450

Application Number	09/444,359
Filing Date	November 18, 1999
First Named Inventor	Gillespie, Donald E.
Art Unit	2684
Examiner Name	Tu X Nguyen
Attorney Docket Number	020366-067400US

Enclosed is a petition filed under 37 CFR \$1.47 that requires a processing fee (37 CFR 1.17(f), (g), or (h)). Payment of \$ 200 is enclosed.

This form should be included with the above-mentioned petition and faxed or mailed to the Office using the appropriate Mail Stop (e.g., Mail Stop Petition), if applicable. For transmittal of processing fees under 37 CFR 1.17(i), see or PTO/SB/17i.

Payment of Fees (small entity amounts are NOT available for the petition fees)

- ☒ The Commissioner is hereby authorized to charge the following fees to Deposit Account No. 20-1430 :
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Petition Fees under 37 CFR 1.17(f): Fee \$400 Fee Code 1462

For petitions filed under:

- § 1.53(e) - to accord a filing date.
- § 1.57(a) - to accord a filing date.
- § 1.182 - for decision on a question not specifically provided for.
- § 1.183 - to suspend the rules.
- § 1.378(e) - for reconsideration of decision on petition refusing to accept delayed payment of maintenance fee in an expired patent.
- § 1.741(b) - to accord a filing date to an application under § 1.740 for extension of a patent term.

Petition Fees under 37 CFR 1.17(g): Fee \$200 Fee Code 1463

For petitions filed under:

- § 1.12 - for access to an assignment record.
- § 1.14 - for access to an application.
- ✓ § 1.47 - for filing by other than all the inventors or a person not the inventor.
- § 1.59 - for expungement of information.
- § 1.103(a) - to suspend action in an application.
- § 1.136(b) - for review of a request for extension of time when the provisions of section 1.136(a) are not available.
- § 1.295 - for review of refusal to publish a statutory invention registration.
- § 1.296 - to withdraw a request for publication of a statutory invention registration filed on or after the date the notice of intent to publish issued.
- § 1.377 - for review of decision refusing to accept and record payment of a maintenance fee filed prior to expiration of a patent.
- § 1.550(c) - for patent owner requests for extension of time in ex parte reexamination proceedings.
- § 1.956 - for patent owner requests for extension of time in inter partes reexamination proceedings.
- § 5.12 - for expedited handling of a foreign filing license.
- § 5.15 - for changing the scope of a license.
- § 5.25 - for retroactive license.

Petition Fees under 37 CFR 1.17(h): Fee \$130 Fee Code 1464

For petitions filed under:

- § 1.19(g) - to request documents in a form other than that provided in this part.
- § 1.84 - for accepting color drawings or photographs.
- § 1.91 - for entry of a model or exhibit.
- § 1.102(d) - to make an application special.
- § 1.138(c) - to expressly abandon an application to avoid publication.
- § 1.313 - to withdraw an application from issue.
- § 1.314 - to defer issuance of a patent.


SignatureIrvin E. Branch
Typed or printed name

November 21, 2005

Date

42,358

Registration No., if applicable



"Express Mail" Label No. EV326936225US

Deposit November 21, 2005

PATENT

Docket No.: 020366-067400US

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By: Aurora Lowell
Aurora Lowell

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Donald E. Gillespie, et al.

Application No.: 09/444,359

Filed: November 18, 1999

For: METHOD AND SYSTEM FOR
PROVIDING LOCATION-SENSITIVE
CALL MANAGEMENT SERVICES TO
A MOBILE SUBSCRIBER

Examiner: Tu X Nguyen

Art Unit: 2684

PETITION UNDER 37 CFR §1.47(a)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicants petition to file the above-referenced application under 37 CFR §1.47(a) to make application on behalf of themselves and on behalf of the nonsigning inventors: Jafar Nabkel and Edward A. Youngs.


A Declaration of Irvin E. Branch, which includes the last known address of Inventors Jafar Nabkel and Edward A. Youngs is provided herewith in support of this Petition.

Donald E. Gillespie, et al.
Application No.: 09/444,359
Page 2

PATENT

The commissioner is authorized to charge the fee set forth in 37 CFR § 1.17(g) (\$200.00) to the undersigned's Deposit Account No. 20-1430. Please charge any additional fees or credit overpayment to the above deposit account.

Respectfully submitted,



Irvin E. Branch
Reg. No. 42,358

TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, Eighth Floor
San Francisco, California 94111-3834
Tel: (415) 576-0200
Fax: (415) 576-0300
IEB:arl
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Docket No.: 020366-067400US

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Donald E. Gillespie, et al.

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Filed: November 18, 1999

For: METHOD AND SYSTEM FOR
PROVIDING LOCATION-SENSITIVE
CALL MANAGEMENT SERVICES TO
A MOBILE SUBSCRIBER

Examiner: Tu X Nguyen

Art Unit: 2684

DECLARATION OF IRVIN E. BRANCH
IN SUPPORT OF PETITION UNDER 37
C.F.R. §1.47(a)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

I, Irvin E. Branch, am an attorney at Townsend and Townsend and Crew LLP ("TTC"), representing Qwest Communications International Inc. ("Qwest") in the above-referenced patent application.

I hereby declare certain facts surrounding the signing of Declarations of Prior Invention under 37 CFR §1.131 by Inventors Donald E. Gillespie, Jafar Nabkel, Harvey J. Benson, Matthew Jacobs, acting Representative of Karen Siegel-Jacobs and Edward A. Youngs.

At least the following steps have been taken to obtain Inventor Nabkel and Jacob's signatures:

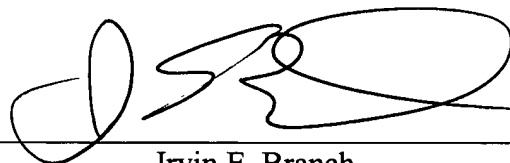
- On August 27, 2005 Attorney for Applicants caused to be mailed via certified mail, return receipt requested, Declarations of Prior Invention under 37 CFR §1.131 to the last known address for Inventors: Donald E. Gillespie, Jafar Nabkel, Harvey J. Benson, Matthew Jacobs, acting Representative of Karen Siegel-Jacobs, and Edward A. Youngs.
- Attorney for Applicants received envelopes marked "Not Deliverable as Addressed, Unable to Forward" for Inventors Nabkel and Youngs. Inventors Nabkel and Youngs are no longer employees of Assignee and Assignee has no other forwarding address in their personnel records. We have been unable to locate them after diligent effort. Copies of the returned envelopes are attached hereto as Exhibit A. The last known address for Inventor Nabkel is: 1630 30th Street, #603, Boulder, CO 80301. The last known address for Inventor Youngs is: 4791 Franklin Drive, Boulder, CO 80301.
- Attorney for Applicants caused to be searched the DEX Yellow Pages for listings for Inventors Nabkel and Youngs in the city of the last known address, as well as surrounding cities. Copies of the DEX Yellow Pages listings are attached hereto as Exhibit B. We were unable to locate any listings for Inventors Nabkel and Youngs.

The undersigned, being hereby warned that willful false statements and the like so made are punishable by fine or imprisonment or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the patent application or any patent resulting therefrom, declare that I am authorized to execute this instrument on behalf of applicants; all statements made of my own

knowledge are true; and all statements made on information and belief are believed to be true.

Date: _____

11/21/05



Irvin E. Branch
Reg. No. 42,358

TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, Eighth Floor
San Francisco, California 94111-3834
Tel: (415) 576-0200
Fax: (415) 576-0300
60627576 v1



7003 2260 0001 7782 8650

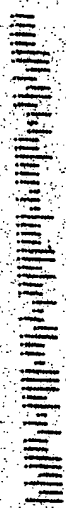
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Denver
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☐ ATTEMPTED NOT KNOWN
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☐ INSUFFICIENT ADDRESS
☐ UNCLAIMED ☐ OTHER

~~SA~~
~~Jafar Hakkel~~
~~1630 30th Street, #603~~
~~Denver, CO 80202~~





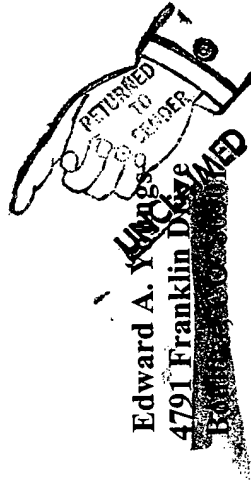
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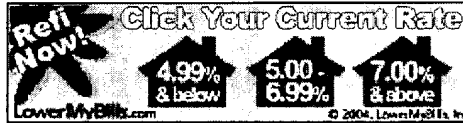
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First: <input type="text" value="Jafar"/>	Last: <input type="text" value="Nabkel"/>
Street: <input type="text"/>	City: <input type="text" value="FORT COLLINS"/>
State: <input type="text" value="CO"/>	Approx Age: <input type="text"/>

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9 Preliminary Search Results for: "Jafar Nabkel"



Name	Age	City	State	Premiu
1 JAFAR NABKEL	-	BOULDER	CO	Advance Instant (C Backgrc
2 JAFAR NABKEL	-	LONGMONT	CO	Advance Instant (C Backgrc
3 JAFAR NABKEL	47	BOULDER	CO	Advance Instant (C Backgrc
4 JAFAR S NABKEL	-	BOULDER	CO	Advance Instant (C Backgrc
5 JAFAR S NABKEL	-	FORT COLLINS	CO	Advance Instant (C Backgrc
6 JAFAR S NABKEL	-	LONGMONT	CO	Advance Instant (C Backgrc
7 JAFAR S NABKEL	47	BOULDER	CO	Advance Instant (C Backgrc
8 JAFAR S NABKEL	47	LONGMONT	CO	Advance Instant (C Backgrc
9 JAFAR S NABKEL	47	SUNNYVALE	CA	Advance Instant (C Backgrc

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Choose a result from the list, then select the kind of information you are looking to find.

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Mon - Fri: 6am - 6pm PST
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You can refine your criteria by entering an age and/or city

USA People Search

Jafar Nabkel	Age	City	All States	Search
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People SearchFound **16** results for **Jafar Nabkel**. (0.11 seconds)sort by: [name](#) | [age](#) | [city](#)

	Name	Address	City	State	Age	Birth Date	Phone
1.	NABKEL, JAFAR S	Available	BOULDER	CO	47	Available	Available
2.	NABKEL, JAFAR S	Available	BOULDER	CO	47	Available	Available
3.	NABKEL, JAFAR S	Available	BOULDER	CO	47	Available	Available
4.	NABKEL, JAFAR S	Available	BOULDER	CO	47	Available	
5.	NABKEL, JAFAR S	Available	BOULDER	CO			
6.	NABKEL, JAFAR	Available	BOULDER	CO	47	Available	
7.	NABKEL, JAFAR S	Available	FORT COLLINS	CO			
8.	NABKEL, JAFAR S	Available	FORT COLLINS	CO			
9.	NABKEL, JAFAR S	Available	LONGMONT	CO	47	Available	
10.	NABKEL, JAFAR S	Available	LONGMONT	CO			
11.	NABKEL, JAFAR	Available	LONGMONT	CO	47	Available	
12.	NABKEL, JAFAR S	Available	SUNNYVALE	CA	47	Available	Available
13.	NABKEL, JAFAR S	Available	SUNNYVALE	CA	47	Available	Available
14.	NABKEL, JAFAR S	Available	SUNNYVALE	CA	47	Available	
15.	NABKEL, JAFAR S	Available	SUNNYVALE	CA	47	Available	
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Street: <input type="text"/>	City: <input type="text" value="BOULDER"/>
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Advanced People Locate

Name	Approx. Age	State
EDWARD YOUNGS	63	CO

Our standard people locate search with summary information from our premium databases.

This report includes: [View sample](#)

- Current & previous addresses
- Phone numbers (if available)
- Possible aliases (including maiden name)

EDWARD YOUNGS's

Address history includes*:

- 2 addresses in Boulder, Co
- 1 address in Lafayette, Co
- 1 address in Ocoee, FL
- 1 address in Holmdel, NJ
- 2 addresses in Matawan, NJ

*(The above addresses were found during our preliminary search. Additional addresses may be included in the full report)

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Your p
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strictly
(See p

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Manag
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consu
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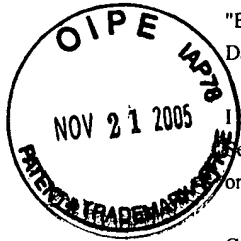
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In re application of:

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For: METHOD AND SYSTEM FOR
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Examiner: Tu X Nguyen

Art Unit: 2684

DECLARATION PURSUANT TO
37 C.F.R. §1.131

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

DECLARATION PURSUANT TO 37 C.F.R. §1.131

Sir:

I, Donald E. Gillespie, declare as follows:


1. I am a co-inventor of the subject matter of the referenced patent application.

2. Prior to September 20, 1999, I participated in the conception of the subject matter of the above-described application (hereinafter "the invention"), as evidenced by Exhibits A through B. Exhibit A is an Invention Disclosure signed by all inventors and three witnesses. Exhibit B is a letter dated August 13, 1999, forwarding that disclosure to outside counsel instructing preparation of the subject patent application.

3. From at least a date prior to September 20, 1999, and continuing until November 18, 1999, the constructive reduction to practice of the invention, the inventors were diligent in reducing this invention to practice by, among other things, reviewing the draft patent application provided by outside counsel on October 4, 1999, as evidenced by Exhibit C.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the above-referenced application or a patent issued therefrom.

Respectfully submitted,

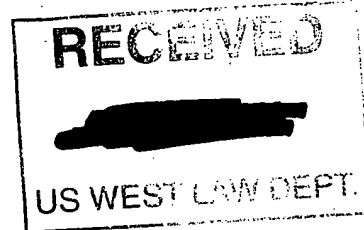


Donald E. Gillespie

NOTE: This form, and other information on patents, is available on The U S WEST Law Department home page at <http://www.uswsis.uswest.com> (select "Law Department", "Intellectual Property", and "Patent"). It is also available on the file server at U S WEST Advanced Technologies, Inc., and in hard copy from the Law Department.

Law Department Use Only	
Docket No.	1674
Date Rec'd	[REDACTED]
USW Entity	ATPCS
Rec'd by (init.)	[Signature]

INVENTION DISCLOSURE



DIRECTIONS

Complete EVERY ITEM. If any item is not applicable or unknown, please indicate.

All inventors should sign the form (Item 14), as well as two witnesses (Item 15) and your supervisor (Item 16).

Send the completed, ORIGINAL form to the U S WEST Law Department - Intellectual Property Group, 7800 East Orchard Road, Suite 490, Englewood, CO 80111. You may FAX the form (FAX No. 303-793-6563), but please also send the original. If you have any questions, contact the Law Department at 303-793-6276 or 303-796-6030.

Since patent rights can be lost by public disclosure, please keep your invention confidential until advised otherwise by the Law Department.

- (1) **Invention Title.** Give a short (10 words or less) descriptive title of the invention.

A location-sensitive method and system for providing call management services to a mobile subscriber.

- (2) **Invention Summary.** State what you regard as the key invention concept (30 words or less).

Mobile phone subscribers could be provided with call management services that are sensitive to their current geographic location; e.g., a Do Not Disturb feature that is automatically activated when subscribers are near their residence.

- (3) **Purpose and Problems Solved.** Briefly state why the invention was developed, what problems it solves and the advantages it has over existing products or processes.

With the emerging PCS networks, mobile phone subscribers are more "in touch". One Number Services allow subscribers to be reached wherever they physically are. At the same time, mobile handsets can be used for both personal and work purposes. This continuous

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communications, however, may result in too many calls to some subscribers and an encroachment on the subscribers' personal or work life.

This invention describes a method and system to provide call management services that operate based on the location of the subscriber's mobile handset. Call Management services include, for example, Do Not Disturb, call screening, caller identification, special billing arrangements, or call forwarding types of services.

- (4) **Description.** Describe the invention and/or attach a description, drawing(s), flow chart(s) and/or diagram(s), if available.

The following diagram shows a wireless network comprised of a wireless handset, a pair of base stations (BS), a mobile switch, and a (pair of) Wireless Service Location Registers (WSLR)TM. The WSLR is described elsewhere, but for the purposes of this invention, it is a network computer containing both Home Location Register (HLR) applications and Location Management applications. The mobile switch may consist of numerous components, including a Base Station Controller, a Mobile Switching Center, and a Visiting Location Register.

The handsets communicate with Base Stations using radio frequencies. Two common digital protocols for this radio connectivity are Code Division Multiplexed Access (CDMA) and Time Division Multiplexed Access (TDMA). The Base Stations communicate with the mobile switch using a base station protocol such as IS-634 or similar. The mobile switch communicates with the WSLR using a signaling protocol such as IS-41 or GSM MAP.

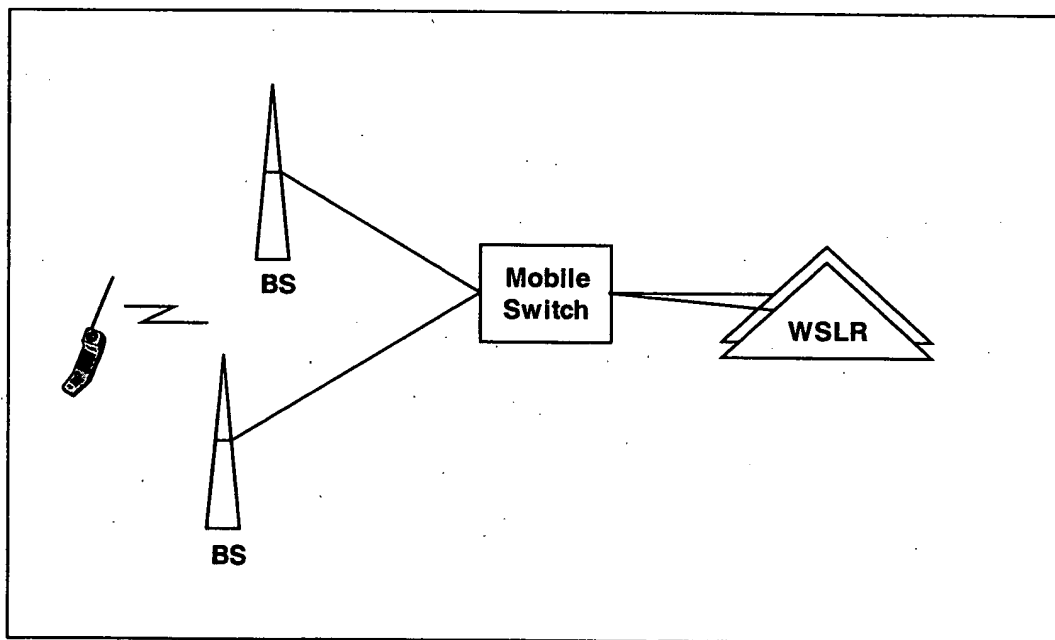


Figure 1: System for Providing Location-Sensitive Services

The method disclosed here teaches that call management services may be applied to incoming calls to the subscriber's handset or to outgoing calls from the subscriber's handset. Handset location information is either: 1) continuously furnished to the WSLR from either the network or from the subscriber's handset, or 2) provided to the WSLR upon request. This location

information may be determined from a variety of techniques well described elsewhere. Two examples are triangulation of radio signals by the base stations or using Global Positioning Systems (GPS) receivers located in mobile handsets.

When incoming calls are placed to the subscriber's handset, a signal (e.g., Location Request) is sent from the mobile switch to the WSLR requesting instructions on how to route the call. The WSLR accesses internal customer profiles to determine if the subscriber's handset is presently located within a geographic region where call management services for that subscriber apply. If so, the WSLR responds to the mobile switch with call processing instructions. For example, a Do Not Disturb service may instruct the switch to present an announcement to calling party stating that the subscriber is unavailable to receive calls at the moment.

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Subscribers may specify the geographic regions where call management services apply in a number of ways. Some ways are by specifying a radius from specific point, a latitude/longitude grid, a list of ZIP codes, or a list of census tracts. This specification can be accomplished several techniques, including manual specification, use of Geographic Informations Systems (GIS), or by automated entry from the handset. An example of the first technique might be supplying a list of ZIP codes to the WSLR operator. An example of the second technique might be outlining a rectangle using a map over a Web-based GIS. An example fo the third technique might be pressing a key on the handset to identify a one-kilometer radius circle from the subscribers current location.

(5) **Business Area.** Check the business area that best fits your invention.

- | | | |
|---|--|---|
| <input type="checkbox"/> Network Services | <input type="checkbox"/> Multimedia/Video | <input type="checkbox"/> Speech Recognition |
| <input type="checkbox"/> Network Operations | <input type="checkbox"/> Digital Signal Processing | <input type="checkbox"/> Voice Messaging |
| <input type="checkbox"/> AIN | <input checked="" type="checkbox"/> Wireless | <input type="checkbox"/> ISDN |
| <input type="checkbox"/> Info. Management | <input type="checkbox"/> Broadband | <input type="checkbox"/> Other: |

(6) **Responsible U S WEST Entity.** Provide the name of the U S WEST Division/Subsidiary having responsibility for the invention. This is usually the organization in which the inventor (or majority of inventors) is employed.

U S WEST Advanced Technologies

(7) **U S WEST Project Name or No.**

- a. Under what U S WEST project name or number was work done which resulted in the invention?

b. If the project was funded by organization(s) other than the responsible organization in Item 6 above, please name that organization(s).

- (8) **Conception Date.** When was the invention first conceived? Please list any records (engineering notebook, memos, etc.) which establish such conception.

The invention was first discussed on [REDACTED] Documented in Integrated Services Architecture subgroup meeting.

- (9) **Prototype or Model.** Has a prototype/model been built? If so, when was it built and where is it now?

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- (10) **Related Items.** Are there any existing products, processes, patents or U S WEST invention disclosures similar or which may relate to the invention? If so, please list them.

U S WEST has a patent on Do Not Disturb, and Remote Access to Call Forwarding. The WSLR has been described in several patents including Integrated Wireline/Wireless services, Generic C architecture, and Answer/Disconnect supervision.

- (11) **Sale or Public Use.** Has this invention been sold, offered for sale or publicly used (field trial, etc.) or is such sale or use anticipated? If so, please supply actual or anticipated dates.

The product has not been offered to the public yet.

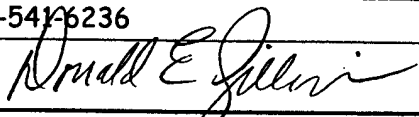

- (12) **Publication or Disclosure.** Has the invention been disclosed in a publication or disclosed to anyone outside U S WEST or is such disclosure or publication anticipated? If so, supply actual or anticipated dates.

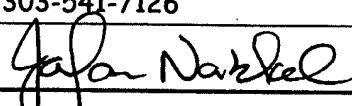

No.



- (13) **Commercial Value.** Briefly outline the potential commercial value of the invention (e.g., likelihood of use by others, licensing potential, etc.).

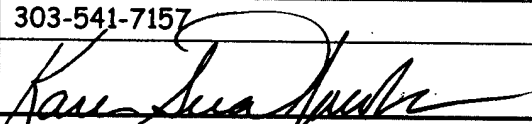

The commercial value to U S WEST lies with a potential commercial offering of location-sensitive services. With the patent application, U S WEST may choose to license the intellectual property to other equipment suppliers, to other network operators, or to retain exclusive marketing rights to the services.

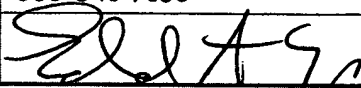

(14) INVENTOR SIGNATURES

First Inventor (print first, MI, last)	Donald E. Gillespie		Citizenship	USA
Relationship to USW: (please check one)	Employee * Contractor <input type="checkbox"/>			
Home Address	3807 Silver Plume Circle, Boulder, Colorado 80303			
USW Subsidiary/Div.	U S WEST Advanced Technologies			
Work Address	4001 Discovery Drive, Suite 240, Boulder, Colorado 80303			
Work Phone	303-541-6236	Fax	303-541-6773	
Signature		Date		

Second Inventor (print first, MI, last)	Jafar Nabkel		Citizenship	USA
Relationship to USW: (please check one)	Employee * Contractor <input type="checkbox"/>			
Home Address	1630 30 th St. #603, Boulder, Colorado 80301			
USW Subsidiary/Div.	U S WEST Advanced Technologies			
Work Address	4001 Discovery Drive, Suite 370, Boulder, Colorado 80303			
Work Phone	303-541-7126	Fax	303-541-8264	
Signature		Date		

Third Inventor (print first, MI, last)	Harvey J. Benson		Citizenship	USA
Relationship to USW: (please check one)	Employee * Contractor <input type="checkbox"/>			
Home Address	1065 West Mulberry Lane, Highlands Ranch, Colorado 80126			
USW Subsidiary/Div.	U S WEST Advanced Technologies			
Work Address	4001 Discovery Drive, Suite 370, Boulder, Colorado 80303			
Work Phone	303-541-6283	Fax	303-541-8264	
Signature		Date		

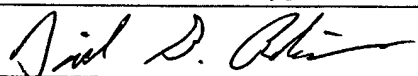

Fourth Inventor (print first, MI, last)	Karen Siegel-Jacobs		Citizenship	USA
Relationship to USW: (please check one)	Employee * Contractor <input type="checkbox"/>			
Home Address	4735 Harrison Ave., Boulder, Colorado 80303			
USW Subsidiary/Div.	U S WEST Advanced Technologies			
Work Address	4001 Discovery Drive, Suite 370, Boulder, Colorado 80303			
Work Phone	303-541-7157	Fax	303-541-8264	
Signature		Date		



Fifth Inventor (print first, MI, last)	Edward A. Youngs		Citizenship	USA
Relationship to USW: (please check one)	Employee <input checked="" type="checkbox"/> Contractor <input type="checkbox"/>			
Home Address	4791 Franklin Drive, Boulder, Colorado 80301			
USW Subsidiary/Div.	U S WEST Advanced Technologies			
Work Address	4001 Discovery Drive, Suite 370, Boulder, Colorado 80303			
Work Phone	303-541-7160	Fax	303-541-8264	
Signature		Date		

(attach more pages if required)

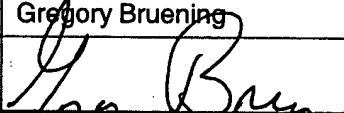

(15) WITNESS SIGNATURES

Read and understood:

Witness #1 (print name)	David G Robinson		
Signature		Date	

Witness #2 (print name)	Lester B. Shupe		
Signature		Date	

(16) SUPERVISOR SIGNATURE

Supervisor (print name)	Gregory Bruening		
Signature		Date	

U S WEST, Inc.
1801 California Street
Suite 5100
Denver, Colorado 80202
Telephone 303 672-2968
Facsimile 303 308-9456

USWEST

Rhonda M. Hardesty
Legal Secretary

August 13, 1999

Rhonda McCoy-Pfau
Howard & Howard
1400 North Woodward Avenue
Bloomfield Hills, Michigan 48304

Re: U S WEST Invention Disclosure for Case 1674
Patent Application Preparation

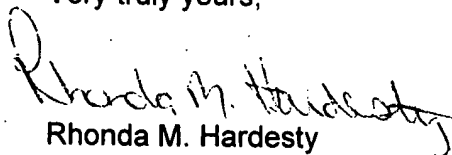
Dear Rhonda:

Enclosed is a copy of an invention disclosure and associated documents for which U S WEST would like Howard & Howard to prepare and file an application. The particulars are as follows:

Our Case: 1674
Title: A LOCATION-SENSITIVE METHOD AND SYSTEM FOR PROVIDING
CALL MANAGEMENT SERVICES TO A MOBILE SUBSCRIBER
Inventor(s): Edward A. Youngs
Donald E. Gillespie
Jafar Nabkel
Harvey J. Benson
Karen Seigel-Jacobs
U S WEST Entity: U S WEST Adv. Tech./Wireless
Deposit Acct. No.: 21-0456
U S WEST Attorney: Mark A. Thomas
Client Billing Code: ATI-0049

Please let me know if you need anything further.

Very truly yours,


Rhonda M. Hardesty

Enclosure

HOWARD & HOWARD

ATTORNEYS

Established 1869

The Pinehurst Office Center
Suite 101
1400 North Woodward Avenue
Bloomfield Hills, MI 48304-2856

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Fax (248) 645-1568

The Michigan Building
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100 Portage Street
Kalamazoo, MI 49007-4802

Telephone (616) 382-1483
Fax (616) 382-1568

The Phoenix Building
Suite 500
222 Washington Square, North
Lansing, MI 48933-1817

Telephone (517) 485-1483
Fax (517) 485-1568

The Creve Coeur Building
Suite 200
321 Liberty Street
Peoria, IL 61602-1403

Telephone (309) 672-1483
Fax (309) 672-1568

Rhonda L. McCoy-Pfau

Bloomfield Hills Office

Direct Dial: (248) 723-0434

October 4, 1999

Mr. Jafar Nabkel
U.S. West Advanced Technologies
4001 Discovery Drive
Boulder CO 80303

Via Overnight Mail

RE: U.S. Patent Application for:
"METHOD AND SYSTEM FOR PROVIDING LOCATION-SENSITIVE CALL
MANAGEMENT SERVICES TO A MOBILE SUBSCRIBER"
Your Ref. No.: 1674
Our Ref. No.: 60,434-002;

[REDACTED]

Dear Jafar:

I have enclosed a draft of the above-identified patent application for review by you as well as your co-inventors, including informal drawings to expedite the review process. Formal drawings will be prepared prior to filing the Application.

Please carefully review the application at your earliest convenience for accuracy and completeness. Keep in mind that we must disclose the best mode known for practicing the invention at the time of filing. Under the law, the best mode must further be disclosed in a way that would enable one of ordinary skill in the art to practice the invention without undue experimentation.

Mr. Jafar Nabkel

October 4, 1999

Page 2

I look forward to hearing from you. In the meantime, should you have any questions, please do not hesitate to contact me.

Very truly yours,

HOWARD & HOWARD

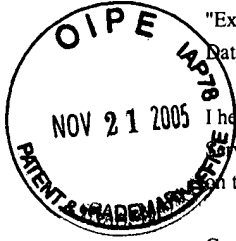
Rhonda L. McCoy-Pfau

Rhonda L. McCoy-Pfau

RLM/smw
Enclosures

cc: Mark A. Thomas (w/encl.)

G:\MMERITOR\lp00392\COR\Nabkel-Ltr.doc



"Express Mail" Label No. EV326936225US

Date of Deposit November 21, 2005

PATENT
Attorney Docket No.: 020366-067400US

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Address" service under 37 CFR 1.10 on the date indicated above and is addressed to:

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

By: Aurora Lowell
Aurora Lowell

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Donald E. Gillespie, et al.

Application No.: 09/444,359

Filed: November 18, 1999

For: METHOD AND SYSTEM FOR
PROVIDING LOCATION-SENSITIVE
CALL MANAGEMENT SERVICES TO
A MOBILE SUBSCRIBER

Examiner: Tu X Nguyen

Art Unit: 2684

DECLARATION PURSUANT TO
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Sir:

I, Harvey J. Benson, declare as follows:

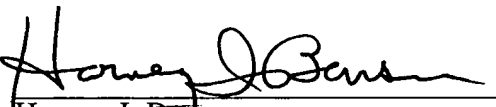
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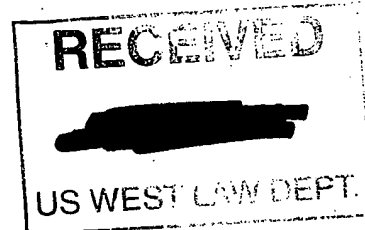
Respectfully submitted,


Harvey J. Benson

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Law Department Use Only	
Docket No.	1674
Date Rec'd	[REDACTED]
USW Entity	ATPCS
Rec'd by (init.)	(RW)

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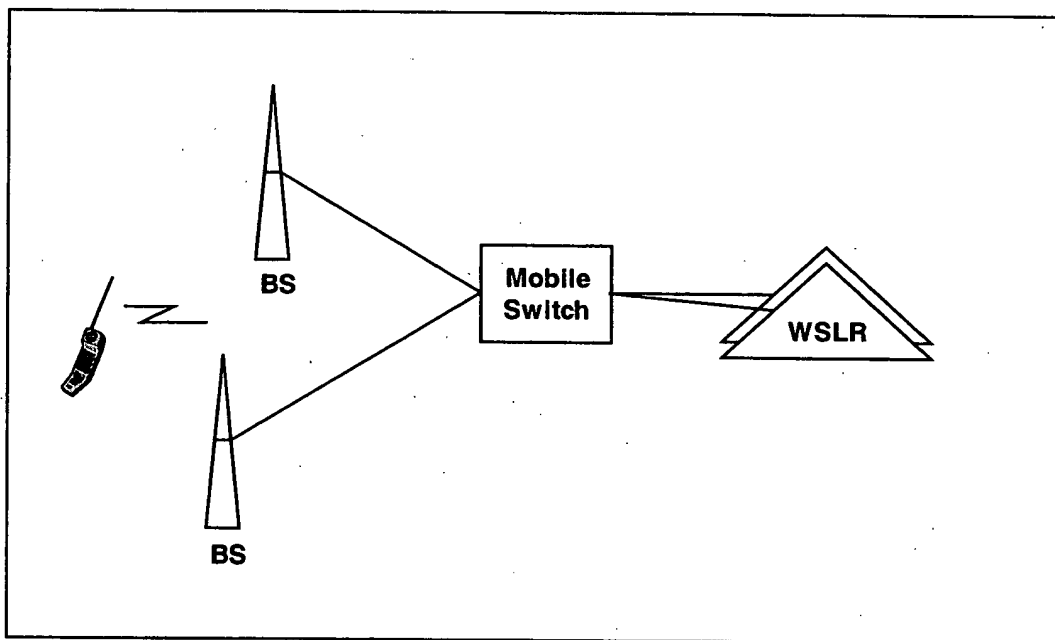


Figure 1: System for Providing Location-Sensitive Services

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| <input type="checkbox"/> AIN | <input checked="" type="checkbox"/> Wireless | <input type="checkbox"/> ISDN |
| <input type="checkbox"/> Info. Management | <input type="checkbox"/> Broadband | <input type="checkbox"/> Other: |

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U S WEST Advanced Technologies

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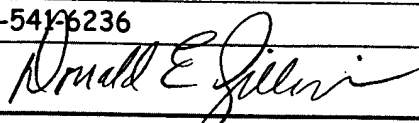
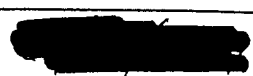
- (12) **Publication or Disclosure.** Has the invention been disclosed in a publication or disclosed to anyone outside U S WEST or is such disclosure or publication anticipated? If so, supply actual or anticipated dates.

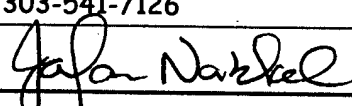

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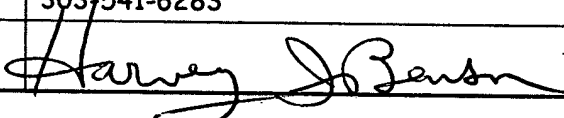
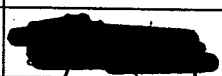
- (13) **Commercial Value.** Briefly outline the potential commercial value of the invention (e.g., likelihood of use by others, licensing potential, etc.).

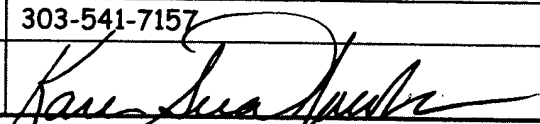

The commercial value to U S WEST lies with a potential commercial offering of location-sensitive services. With the patent application, U S WEST may choose to license the intellectual property to other equipment suppliers, to other network operators, or to retain exclusive marketing rights to the services.

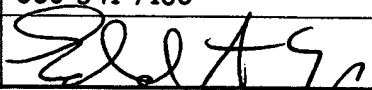
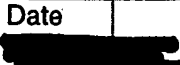
(14) INVENTOR SIGNATURES

First Inventor (print first, MI, last)	Donald E. Gillespie		Citizenship	USA
Relationship to USW: (please check one)	Employee * Contractor <input type="checkbox"/>			
Home Address	3807 Silver Plume Circle, Boulder, Colorado 80303			
USW Subsidiary/Div.	U S WEST Advanced Technologies			
Work Address	4001 Discovery Drive, Suite 240, Boulder, Colorado 80303			
Work Phone	303-541-6236	Fax	303-541-6773	
Signature		Date		

Second Inventor (print first, MI, last)	Jafar Nabkel		Citizenship	USA
Relationship to USW: (please check one)	Employee * Contractor <input type="checkbox"/>			
Home Address	1630 30 th St. #603, Boulder, Colorado 80301			
USW Subsidiary/Div.	U S WEST Advanced Technologies			
Work Address	4001 Discovery Drive, Suite 370, Boulder, Colorado 80303			
Work Phone	303-541-7126	Fax	303-541-8264	
Signature		Date		

Third Inventor (print first, MI, last)	Harvey J. Benson		Citizenship	USA
Relationship to USW: (please check one)	Employee * Contractor <input type="checkbox"/>			
Home Address	1065 West Mulberry Lane, Highlands Ranch, Colorado 80126			
USW Subsidiary/Div.	U S WEST Advanced Technologies			
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Work Phone	303-541-6283	Fax	303-541-8264	
Signature		Date		

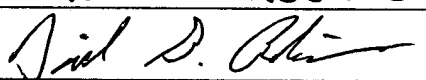

Fourth Inventor (print first, MI, last)	Karen Siegel-Jacobs		Citizenship	USA
Relationship to USW: (please check one)	Employee * Contractor <input type="checkbox"/>			
Home Address	4735 Harrison Ave., Boulder, Colorado 80303			
USW Subsidiary/Div.	U S WEST Advanced Technologies			
Work Address	4001 Discovery Drive, Suite 370, Boulder, Colorado 80303			
Work Phone	303-541-7157	Fax	303-541-8264	
Signature		Date		



Fifth Inventor (print first, MI, last)	Edward A. Youngs		Citizenship	USA
Relationship to USW: (please check one)	Employee <input checked="" type="checkbox"/> Contractor <input type="checkbox"/>			
Home Address	4791 Franklin Drive, Boulder, Colorado 80301			
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Signature		Date		

(attach more pages if required)

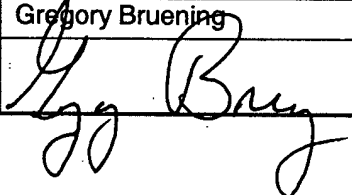
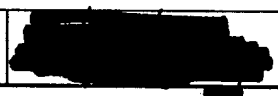
(15) WITNESS SIGNATURES

Read and understood:

Witness #1 (print name)	David G Robinson		
Signature		Date	

Witness #2 (print name)	Lester B. Shupe		
Signature		Date	

(16) SUPERVISOR SIGNATURE

Supervisor (print name)	Gregory Bruening		
Signature		Date	

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Suite 5100
Denver, Colorado 80202
Telephone 303 672-2968
Facsimile 303 308-9456

U S WEST

Rhonda M. Hardesty
Legal Secretary

August 13, 1999

Rhonda McCoy-Pfau
Howard & Howard
1400 North Woodward Avenue
Bloomfield Hills, Michigan 48304

Re: U S WEST Invention Disclosure for Case 1674
Patent Application Preparation

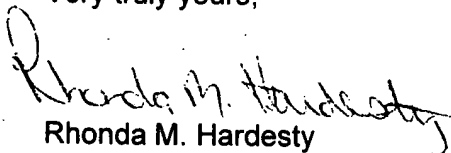
Dear Rhonda:

Enclosed is a copy of an invention disclosure and associated documents for which U S WEST would like Howard & Howard to prepare and file an application. The particulars are as follows:

Our Case: 1674
Title: A LOCATION-SENSITIVE METHOD AND SYSTEM FOR PROVIDING
CALL MANAGEMENT SERVICES TO A MOBILE SUBSCRIBER
Inventor(s): Edward A. Youngs
Donald E. Gillespie
Jafar Nabkel
Harvey J. Benson
Karen Seigel-Jacobs
U S WEST Entity: U S WEST Adv. Tech./Wireless
Deposit Acct. No.: 21-0456
U S WEST Attorney: Mark A. Thomas
Client Billing Code: ATI-0049

Please let me know if you need anything further.

Very truly yours,


Rhonda M. Hardesty

Enclosure

(F)

HOWARD & HOWARD

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Established 1869

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Rhonda L. McCoy-Pfau

Bloomfield Hills Office

Direct Dial: (248) 723-0434

October 4, 1999

Mr. Jafar Nabkel
U.S. West Advanced Technologies
4001 Discovery Drive
Boulder CO 80303

Via Overnight Mail

RE: U.S. Patent Application for:
"METHOD AND SYSTEM FOR PROVIDING LOCATION-SENSITIVE CALL
MANAGEMENT SERVICES TO A MOBILE SUBSCRIBER"
Your Ref. No.: 1674
Our Ref. No.: 60,434-002;

[REDACTED]

[REDACTED]

Dear Jafar:

I have enclosed a draft of the above-identified patent application for review by you as well as your co-inventors, including informal drawings to expedite the review process. Formal drawings will be prepared prior to filing the Application.

Please carefully review the application at your earliest convenience for accuracy and completeness. Keep in mind that we must disclose the best mode known for practicing the invention at the time of filing. Under the law, the best mode must further be disclosed in a way that would enable one of ordinary skill in the art to practice the invention without undue experimentation.

Mr. Jafar Nabkel

October 4, 1999

Page 2

I look forward to hearing from you. In the meantime, should you have any questions, please do not hesitate to contact me.

Very truly yours,

HOWARD & HOWARD

Rhonda L. McCoy-Pfau
Rhonda L. McCoy-Pfau

RLM/smw
Enclosures

cc: Mark A. Thomas (w/encl.)

G:\M\MERITOR\lp00392\COR\Nabkel-Ltr.doc



"Express Mail" Label No. EV326936225US

Date of Deposit November 21, 2005

PATENT

Attorney Docket No.: 020366-067400US

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Address" service under 37 CFR 1.10 on the date indicated above and is addressed to:

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

By: Aurora Lowell

Aurora Lowell

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Donald E. Gillespie, et al.

Application No.: 09/444,359

Filed: November 18, 1999

For: METHOD AND SYSTEM FOR
PROVIDING LOCATION-SENSITIVE
CALL MANAGEMENT SERVICES TO
A MOBILE SUBSCRIBER

Examiner: Tu X Nguyen

Art Unit: 2684

DECLARATION PURSUANT TO
37 C.F.R. §1.131

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

DECLARATION PURSUANT TO 37 C.F.R. §1.131

Sir:

I, Matthew Jacobs, am acting as the Representative of Karen Siegel-Jacobs' Estate under 37 C.F.R. §1.42, and declare that the following is true to the best of my knowledge and/or that I know of no facts that would contradict the following:

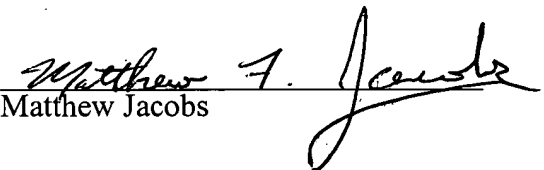
1. Karen Siegel-Jacobs, my deceased wife, was a co-inventor of the subject matter of the referenced patent application.

2. Prior to September 20, 1999, she participated in the conception of the subject matter of the above-described application (hereinafter "the invention"), as evidenced by Exhibits A through B. Exhibit A is an Invention Disclosure signed by all inventors and three witnesses. Exhibit B is a letter dated August 13, 1999, forwarding that disclosure to outside counsel instructing preparation of the subject patent application.

3. From at least a date prior to September 20, 1999, and continuing until November 18, 1999, the constructive reduction to practice of the invention, the inventors were diligent in reducing this invention to practice by, among other things, reviewing the draft patent application provided by outside counsel on October 4, 1999, as evidenced by Exhibit C.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the above-referenced application or a patent issued therefrom.

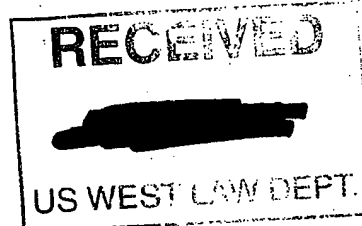
Respectfully submitted,


Matthew Jacobs

NOTE: This form, and other information on patents, is available on The U S WEST Law Department home page at <http://www.uswsis.uswest.com> (select "Law Department", "Intellectual Property", and "Patent"). It is also available on the file server at U S WEST Advanced Technologies, Inc., and in hard copy from the Law Department.

Law Department Use Only	
Docket No.	1674
Date Rec'd	[REDACTED]
USW Entity	ATPCS
Rec'd by (init.)	(RD)

INVENTION DISCLOSURE



DIRECTIONS

Complete EVERY ITEM. If any item is not applicable or unknown, please indicate.

All inventors should sign the form (Item 14), as well as two witnesses (Item 15) and your supervisor (Item 16).

Send the completed, ORIGINAL form to the U S WEST Law Department - Intellectual Property Group, 7800 East Orchard Road, Suite 490, Englewood, CO 80111. You may FAX the form (FAX No. 303-793-6563), but please also send the original. If you have any questions, contact the Law Department at 303-793-6276 or 303-796-6030.

Since patent rights can be lost by public disclosure, please keep your invention confidential until advised otherwise by the Law Department.

- (1) **Invention Title.** Give a short (10 words or less) descriptive title of the invention.

A location-sensitive method and system for providing call management services to a mobile subscriber.

- (2) **Invention Summary.** State what you regard as the key invention concept (30 words or less).

Mobile phone subscribers could be provided with call management services that are sensitive to their current geographic location; e.g., a Do Not Disturb feature that is automatically activated when subscribers are near their residence.

- (3) **Purpose and Problems Solved.** Briefly state why the invention was developed, what problems it solves and the advantages it has over existing products or processes.

With the emerging PCS networks, mobile phone subscribers are more "in touch". One Number Services allow subscribers to be reached wherever they physically are. At the same time, mobile handsets can be used for both personal and work purposes. This continuous

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communications, however, may result in too many calls to some subscribers and an encroachment on the subscribers' personal or work life.

This invention describes a method and system to provide call management services that operate based on the location of the subscriber's mobile handset. Call Management services include, for example, Do Not Disturb, call screening, caller identification, special billing arrangements, or call forwarding types of services.

- (4) **Description.** Describe the invention and/or attach a description, drawing(s), flow chart(s) and/or diagram(s), if available.

The following diagram shows a wireless network comprised of a wireless handset, a pair of base stations (BS), a mobile switch, and a (pair of) Wireless Service Location Registers (WSLR)TM. The WSLR is described elsewhere, but for the purposes of this invention, it is a network computer containing both Home Location Register (HLR) applications and Location Management applications. The mobile switch may consist of numerous components, including a Base Station Controller, a Mobile Switching Center, and a Visiting Location Register.

The handsets communicate with Base Stations using radio frequencies. Two common digital protocols for this radio connectivity are Code Division Multiplexed Access (CDMA) and Time Division Multiplexed Access (TDMA). The Base Stations communicate with the mobile switch using a base station protocol such as IS-634 or similar. The mobile switch communicates with the WSLR using a signaling protocol such as IS-41 or GSM MAP.

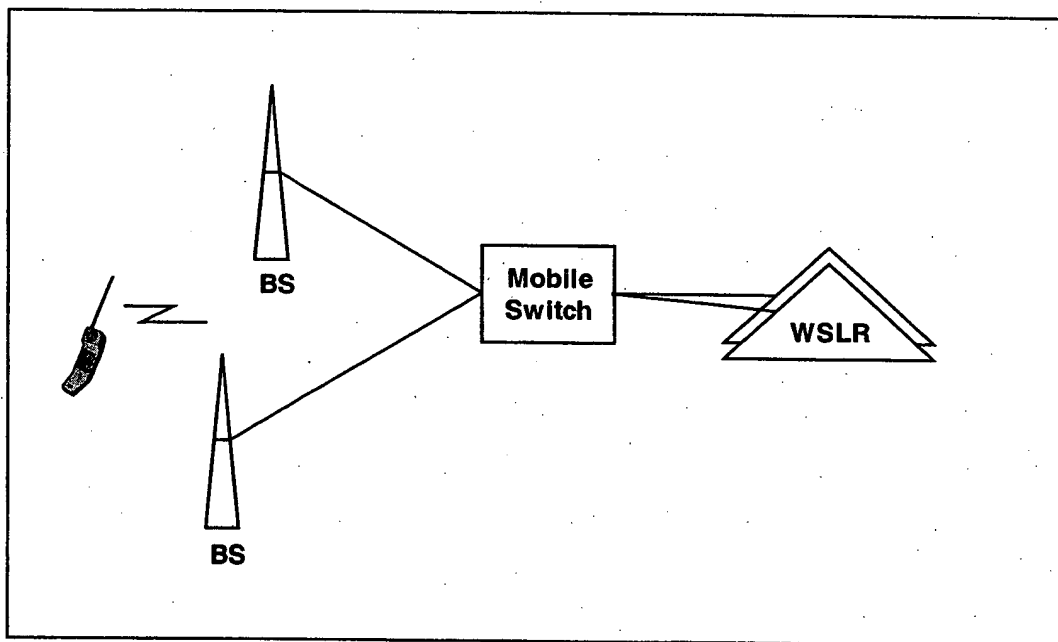


Figure 1: System for Providing Location-Sensitive Services

The method disclosed here teaches that call management services may be applied to incoming calls to the subscriber's handset or to outgoing calls from the subscriber's handset. Handset location information is either: 1) continuously furnished to the WSLR from either the network or from the subscriber's handset, or 2) provided to the WSLR upon request. This location

information may be determined from a variety of techniques well described elsewhere. Two examples are triangulation of radio signals by the base stations or using Global Positioning Systems (GPS) receivers located in mobile handsets.

When incoming calls are placed to the subscriber's handset, a signal (e.g., Location Request) is sent from the mobile switch to the WSLR requesting instructions on how to route the call. The WSLR accesses internal customer profiles to determine if the subscriber's handset is presently located within a geographic region where call management services for that subscriber apply. If so, the WSLR responds to the mobile switch with call processing instructions. For example, a Do Not Disturb service may instruct the switch to present an announcement to calling party stating that the subscriber is unavailable to receive calls at the moment.

When outgoing calls are placed from the subscriber's handset, a signal (e.g., Origination Request) is sent from the mobile switch to the WSLR requesting instructions on how to route the call. The WSLR accesses internal customer profiles to determine if the subscriber's handset is presently located within a geographic region where call management services for that subscriber apply. If so, the WSLR responds to the mobile switch with call processing instructions. For example, a caller identification service may replace the handset's caller identification with the subscriber's office telephone number when the handset is in the vicinity of the subscriber's office location.

Subscribers may specify the geographic regions where call management services apply in a number of ways. Some ways are by specifying a radius from specific point, a latitude/longitude grid, a list of ZIP codes, or a list of census tracts. This specification can be accomplished several techniques, including manual specification, use of Geographic Informations Systems (GIS), or by automated entry from the handset. An example of the first technique might be supplying a list of ZIP codes to the WSLR operator. An example of the second technique might be outlining a rectangle using a map over a Web-based GIS. An example fo the third technique might be pressing a key on the handset to identify a one-kilometer radius circle from the subscribers current location.

(5) **Business Area.** Check the business area that best fits your invention.

- | | | |
|---|--|---|
| <input type="checkbox"/> Network Services | <input type="checkbox"/> Multimedia/Video | <input type="checkbox"/> Speech Recognition |
| <input type="checkbox"/> Network Operations | <input type="checkbox"/> Digital Signal Processing | <input type="checkbox"/> Voice Messaging |
| <input type="checkbox"/> AIN | <input checked="" type="checkbox"/> Wireless | <input type="checkbox"/> ISDN |
| <input type="checkbox"/> Info. Management | <input type="checkbox"/> Broadband | <input type="checkbox"/> Other: |

(6) **Responsible U S WEST Entity.** Provide the name of the U S WEST Division/Subsidiary having responsibility for the invention. This is usually the organization in which the inventor (or majority of inventors) is employed.

U S WEST Advanced Technologies

(7) **U S WEST Project Name or No.**

- a. Under what U S WEST project name or number was work done which resulted in the invention?

b. If the project was funded by organization(s) other than the responsible organization in Item 6 above, please name that organization(s).

- (8) **Conception Date.** When was the invention first conceived? Please list any records (engineering notebook, memos, etc.) which establish such conception.

The invention was first discussed on [REDACTED] Documented in Integrated Services Architecture subgroup meeting.

- (9) **Prototype or Model.** Has a prototype/model been built? If so, when was it built and where is it now?

No prototype or model has been constructed yet.

- (10) **Related Items.** Are there any existing products, processes, patents or U S WEST invention disclosures similar or which may relate to the invention? If so, please list them.

U S WEST has a patent on Do Not Disturb, and Remote Access to Call Forwarding. The WSLR has been described in several patents including Integrated Wireline/Wireless services, Generic C architecture, and Answer/Disconnect supervision.

- (11) **Sale or Public Use.** Has this invention been sold, offered for sale or publicly used (field trial, etc.) or is such sale or use anticipated? If so, please supply actual or anticipated dates.

The product has not been offered to the public yet.

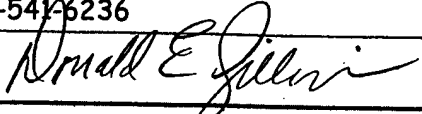

- (12) **Publication or Disclosure.** Has the invention been disclosed in a publication or disclosed to anyone outside U S WEST or is such disclosure or publication anticipated? If so, supply actual or anticipated dates.

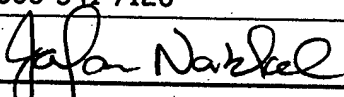

No.



- (13) **Commercial Value.** Briefly outline the potential commercial value of the invention (e.g., likelihood of use by others, licensing potential, etc.).



The commercial value to U S WEST lies with a potential commercial offering of location-sensitive services. With the patent application, U S WEST may choose to license the intellectual property to other equipment suppliers, to other network operators, or to retain exclusive marketing rights to the services.



(14) INVENTOR SIGNATURES

First Inventor (print first, MI, last)	Donald E. Gillespie	Citizenship	USA
Relationship to USW: (please check one)	Employee <input checked="" type="checkbox"/> Contractor <input type="checkbox"/>		
Home Address	3807 Silver Plume Circle, Boulder, Colorado 80303		
USW Subsidiary/Div.	U S WEST Advanced Technologies		
Work Address	4001 Discovery Drive, Suite 240, Boulder, Colorado 80303		
Work Phone	303-541-6236	Fax	303-541-6773
Signature		Date	

Second Inventor (print first, MI, last)	Jafar Nabkel	Citizenship	USA
Relationship to USW: (please check one)	Employee <input checked="" type="checkbox"/> Contractor <input type="checkbox"/>		
Home Address	1630 30 th St. #603, Boulder, Colorado 80301		
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Third Inventor (print first, MI, last)	Harvey J. Benson	Citizenship	USA
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Signature		Date	



Fourth Inventor (print first, MI, last)	Karen Siegel-Jacobs	Citizenship	USA
Relationship to USW: (please check one)	Employee <input checked="" type="checkbox"/> Contractor <input type="checkbox"/>		
Home Address	4735 Harrison Ave., Boulder, Colorado 80303		
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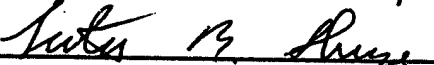

Fifth Inventor (print first, MI, last)	Edward A. Youngs		Citizenship	USA
Relationship to USW: (please check one)	Employee * <input checked="" type="checkbox"/> Contractor <input type="checkbox"/>			
Home Address	4791 Franklin Drive, Boulder, Colorado 80301			
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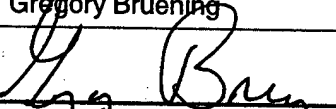

(15) WITNESS SIGNATURES

Read and understood:

Witness #1 (print name)	David G Robinson		
Signature		Date	

Witness #2 (print name)	Lester B. Shupe		
Signature		Date	

(16) SUPERVISOR SIGNATURE

Supervisor (print name)	Gregory Bruening		
Signature		Date	

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U S WEST

Rhonda M. Hardesty
Legal Secretary

August 13, 1999

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Howard & Howard
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Re: U S WEST Invention Disclosure for Case 1674
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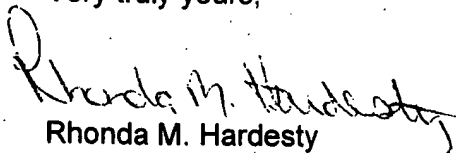
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Harvey J. Benson
Karen Seigel-Jacobs
U S WEST Entity: U S WEST Adv. Tech./Wireless
Deposit Acct. No.: 21-0456
U S WEST Attorney: Mark A. Thomas
Client Billing Code: ATI-0049

Please let me know if you need anything further.

Very truly yours,


Rhonda M. Hardesty

Enclosure

(F)

HOWARD & HOWARD

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Rhonda L. McCoy-Pfau

Bloomfield Hills Office

Direct Dial: (248) 723-0434

October 4, 1999

**Mr. Jafar Nabkel
U.S. West Advanced Technologies
4001 Discovery Drive
Boulder CO 80303**

Via Overnight Mail

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[REDACTED]

[REDACTED]

[REDACTED]

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Very truly yours,

HOWARD & HOWARD

Rhonda L. McCoy-Pfau
Rhonda L. McCoy-Pfau

RLM/smw
Enclosures

cc: Mark A. Thomas (w/encl.)
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